For: Director of ITS · Head of Traffic Signal Control

Typical IT / Analyst Prep: ~30 mins for 1 signalised corridor (30 days)

Dubai Flow: 4-Week Corridor Digital-Twin Study (AED 0 Upfront)

Forwardable technical scope for your operational or IT lead. No live logins, VPNs or production changes are used at any point in this study.

01 · EXACT READ-ONLY HISTORICAL EXTRACTS (CSV / XLSX / PDF)

EXTRACT / REGISTER	TYPICAL SOURCE	FIELDS / COLUMNS USED
1. 30-Day Approach Detector Counts	Loop / Radar Detector CSV	`timestamp_interval, junction_id, approach_lane_id, vehicle_volume, occupancy_pct`
2. Historical Signal Stage & Split Logs	UTC / Controller Event CSV	`timestamp, junction_id, stage_id, actual_green_sec, cycle_time_sec, coordination_offset_sec`
3. Junction Stage & Locked Safety Sheet	Signal Timing Specification	`junction_id, stage_phase_diagram, hardware_intergreen_sec, min_green_sec, pedestrian_clearance_sec`

02 · TWO SAFE EXECUTION PATHS (CLIENT CHOOSES)

Option A · Read-Only Slice Under Mutual NDA

Your team shares the agreed read-only historical export above after bilateral NDA signature. Nodal processes it in an isolated UAE-compliant workspace, returns the report, and purges files on study close.

Option B · Self-Run Inside Your Own UAE Network

Your IT team runs Nodal's auditable, dependency-pinned offline script locally on an isolated workstation inside your network and shares only the summary table if you choose.

Strict Security & Scope Boundary (What Is Never Requested):

Zero live traffic-controller write access, zero changes to hardware intergreens or pedestrian stages.

03 · WRITTEN DELIVERABLE, STAGE HONESTY & COMMERCIAL TERMS

WRITTEN OUTPUT

Calibrated corridor digital twin (retained by the authority) benchmarking delay and stops against both your current timing plans and best-practice actuated control before deciding on any 60-day read-only shadow run.

PUBLISHED STAGE & LIMITS

Stage: Simulated, internal review (own synthetic queue model, two-phase junctions without pedestrian stages). On four Dubai districts, median waiting fell 13% vs standard actuated control (20 tests, win in 18) and 45% vs best-cycle fixed-time; against best-practice actuated control it was level in 19 of 20 tests (worth nothing measurable, with 1–4% more stops), and a junction reflex under a simplified central plan changed nothing in 28 of 28 tests. Not tested under UTC-UX Fusion, on RTA's data or by an outside auditor.

MUTUAL NDA & FEE RULE

AED 0 upfront for this 4-Week Corridor Digital-Twin Study. Zero obligation to continue; any subsequent shadow pilot or rollout runs strictly on terms agreed in writing after your team verifies the findings.

Ready to run this check in writing — zero introductory call required

Request bilateral NDA or local runner: santiago@nodal.systems · Full register: nodal.systems/dubai-flow.html

AED 0 UPFRONT